

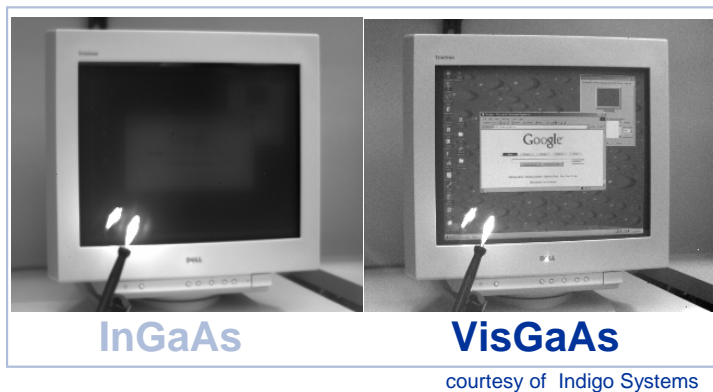


## VIS - NIR color corrected hyperspectral lens introduced for VisGaAs sensor

January 4, 2004 (West Palm Beach, FL) - Coastal Optical Systems ( [www.coastalopt.com](http://www.coastalopt.com) ) has introduced a high performance hyperspectral lens that is color corrected for wavelengths **from 400nm – 1700nm** . The **CoastalOpt™ Hyperspectral** was designed to operate over the full sensitivity range of **Indigo Systems** new **VisGaAs** technology. VisGaAs sensors allow for simultaneous imaging of near infrared and visible wavelengths.

The C-mount adjustable aperture lens accommodates 25.5mm threaded filters and is available from stock. Custom configurations are available.

Coastal Optical Systems, Inc., founded in 1991, designs and manufactures custom lens assemblies for aerospace and defense, machine vision, metrology, digital imaging, projection, and optical networking applications. Coastal is a subsidiary of Jenoptik LOS ( [www.jenoptik-los.com](http://www.jenoptik-los.com) ).

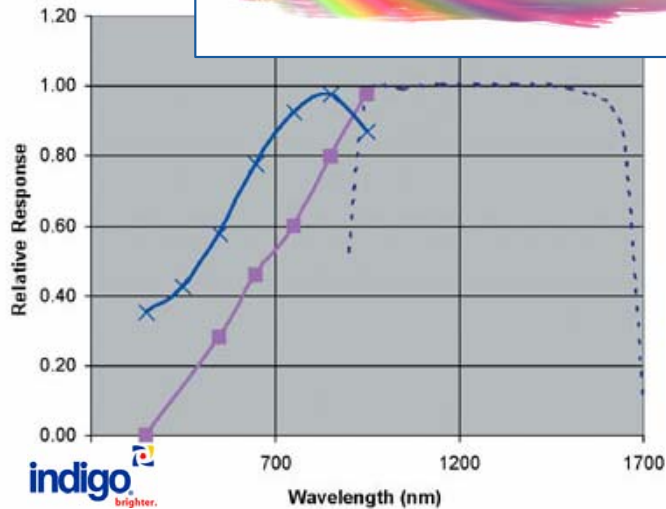


# Hyperspectral CoastalOpt<sup>®</sup> Lens

**400 nm - 1700 nm**



Spectral	400 nm – 1700 nm
Focal length	25 mm
Focal ratio	f / 2.0 maximum
Aperture	adjustable iris
Mount	C-mount
Filter Mount	25.5 mm thread
Dimensions	47 mm L x 47 mm $\varnothing$
Image format	9.60 x 7.68 mm
Field of view	22.1 ° H x 17.6° V

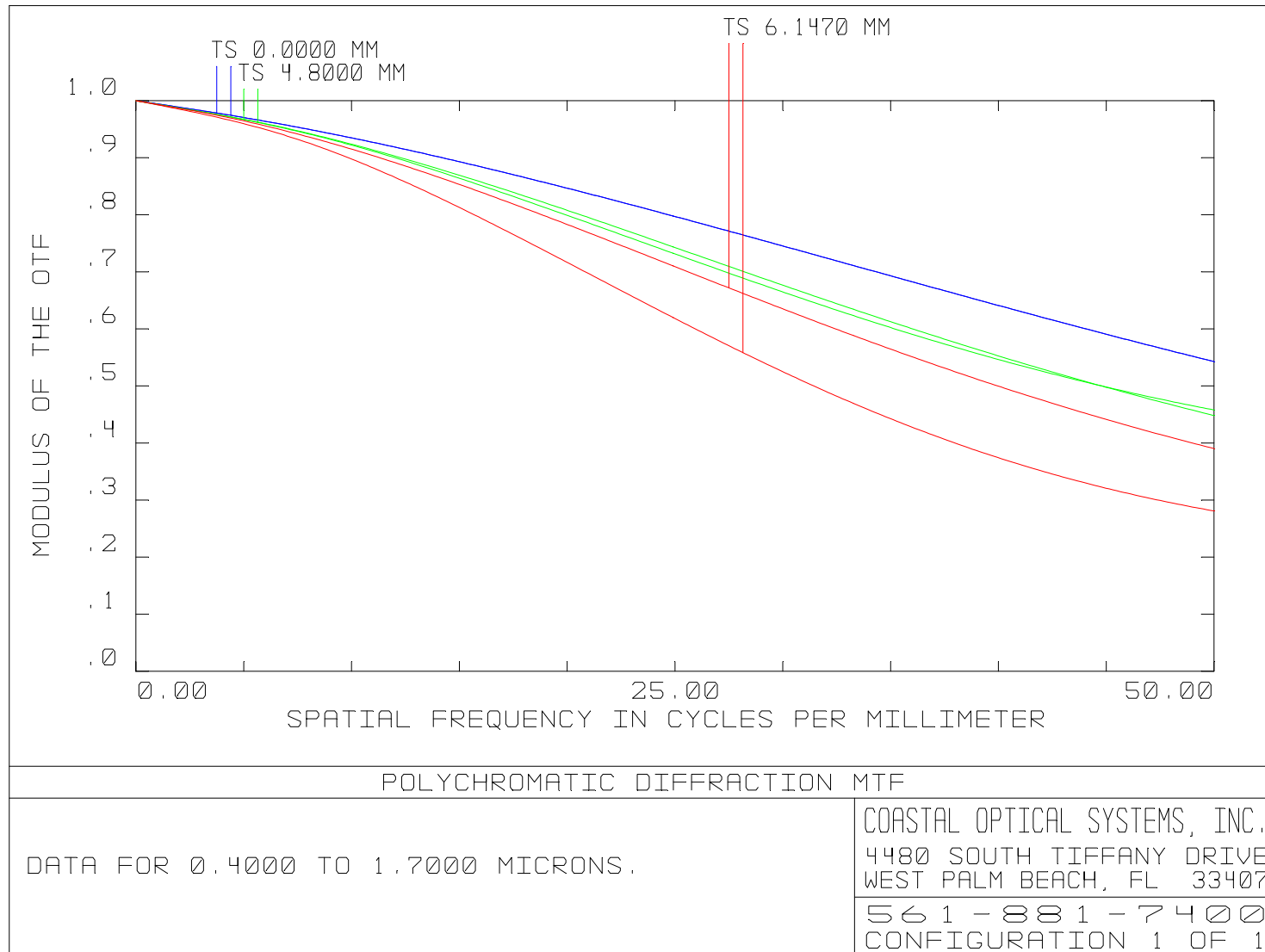


**indigo**  
brighter.

**VisGaAs Sensor Response**

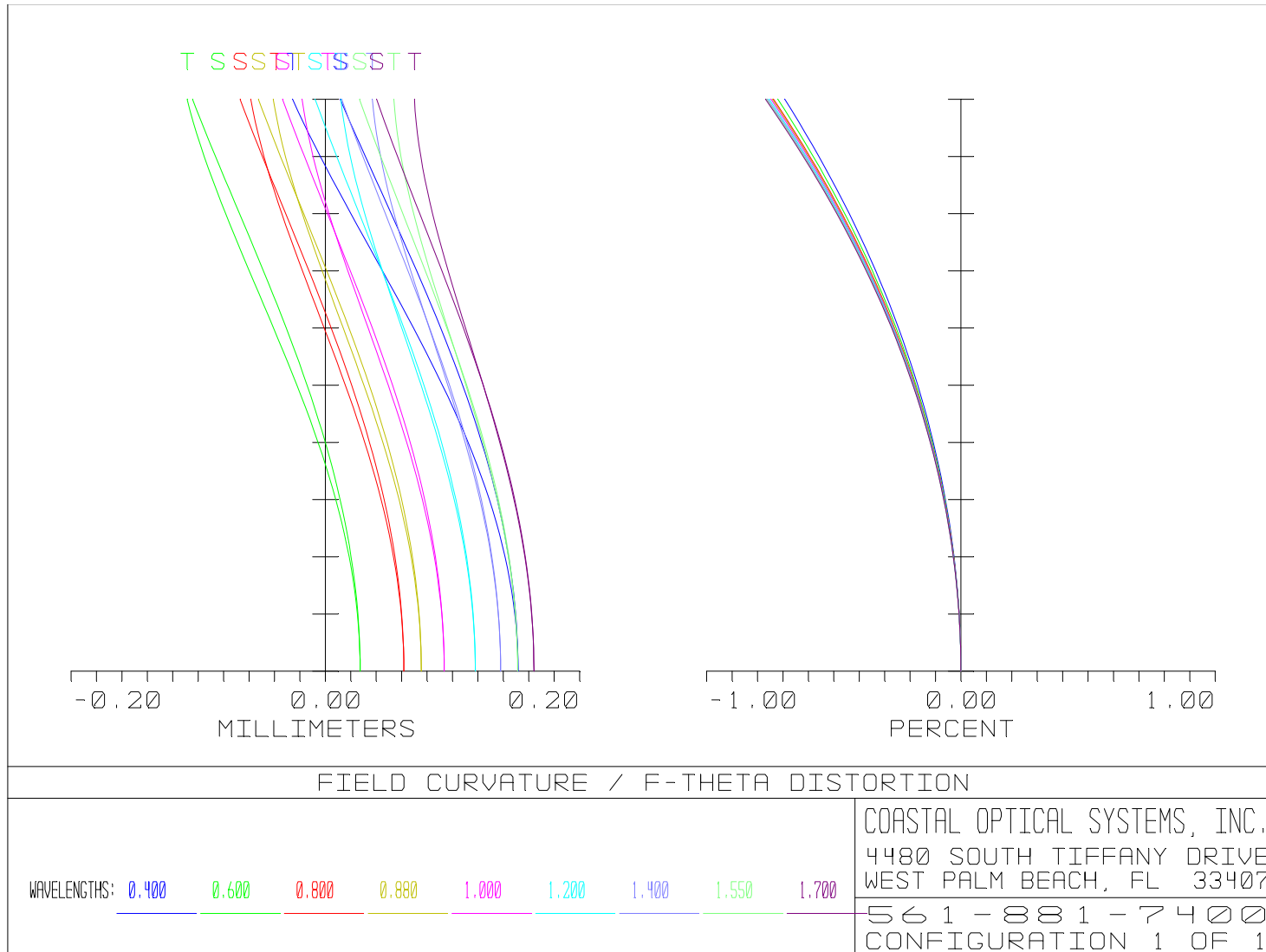
# Hyperspectral CoastalOpt<sup>®</sup> Lens

## -Polychromatic MTF



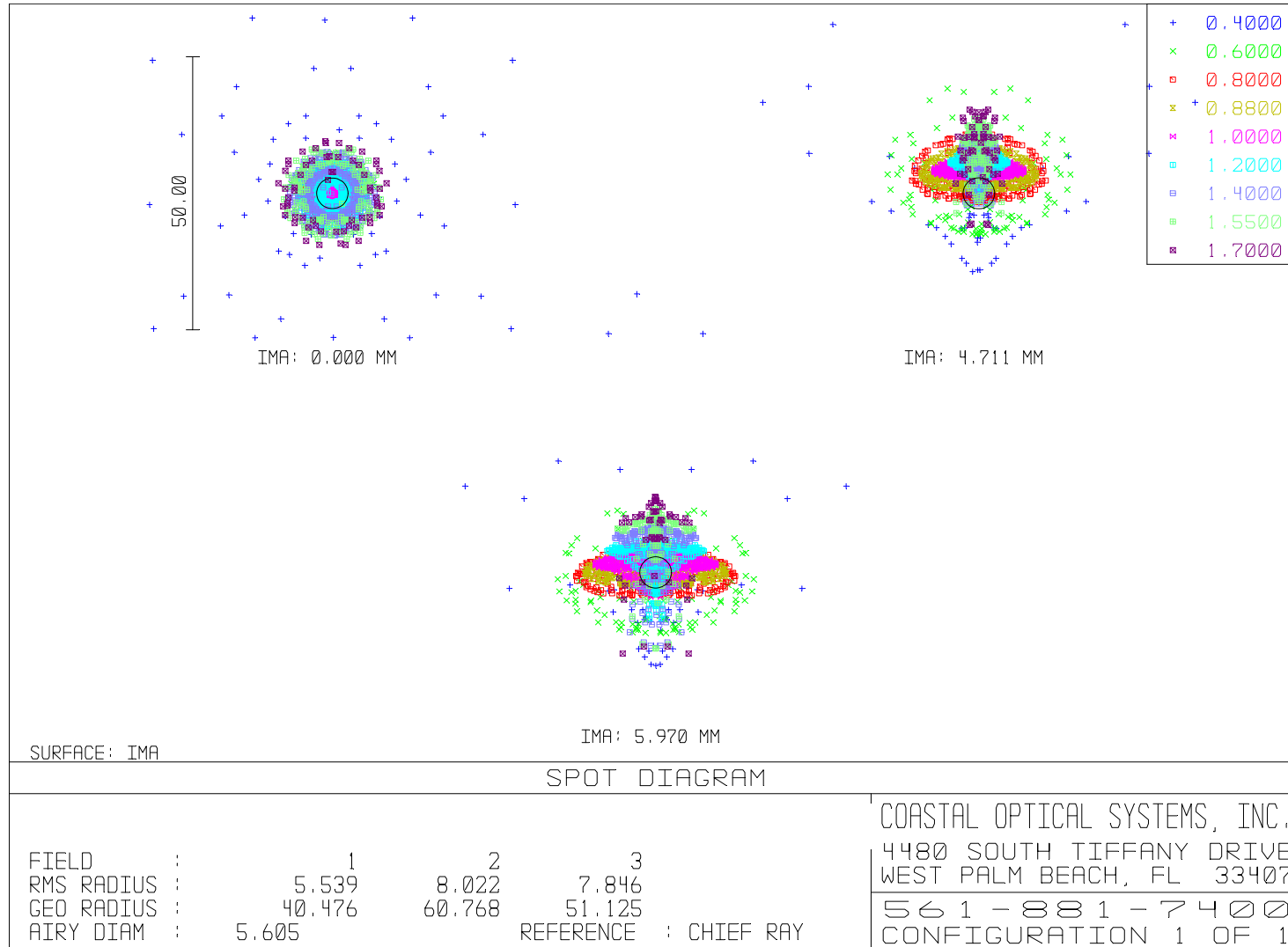
# Hyperspectral CoastalOpt® Lens

*-Field Curvature (F-theta distortion)*



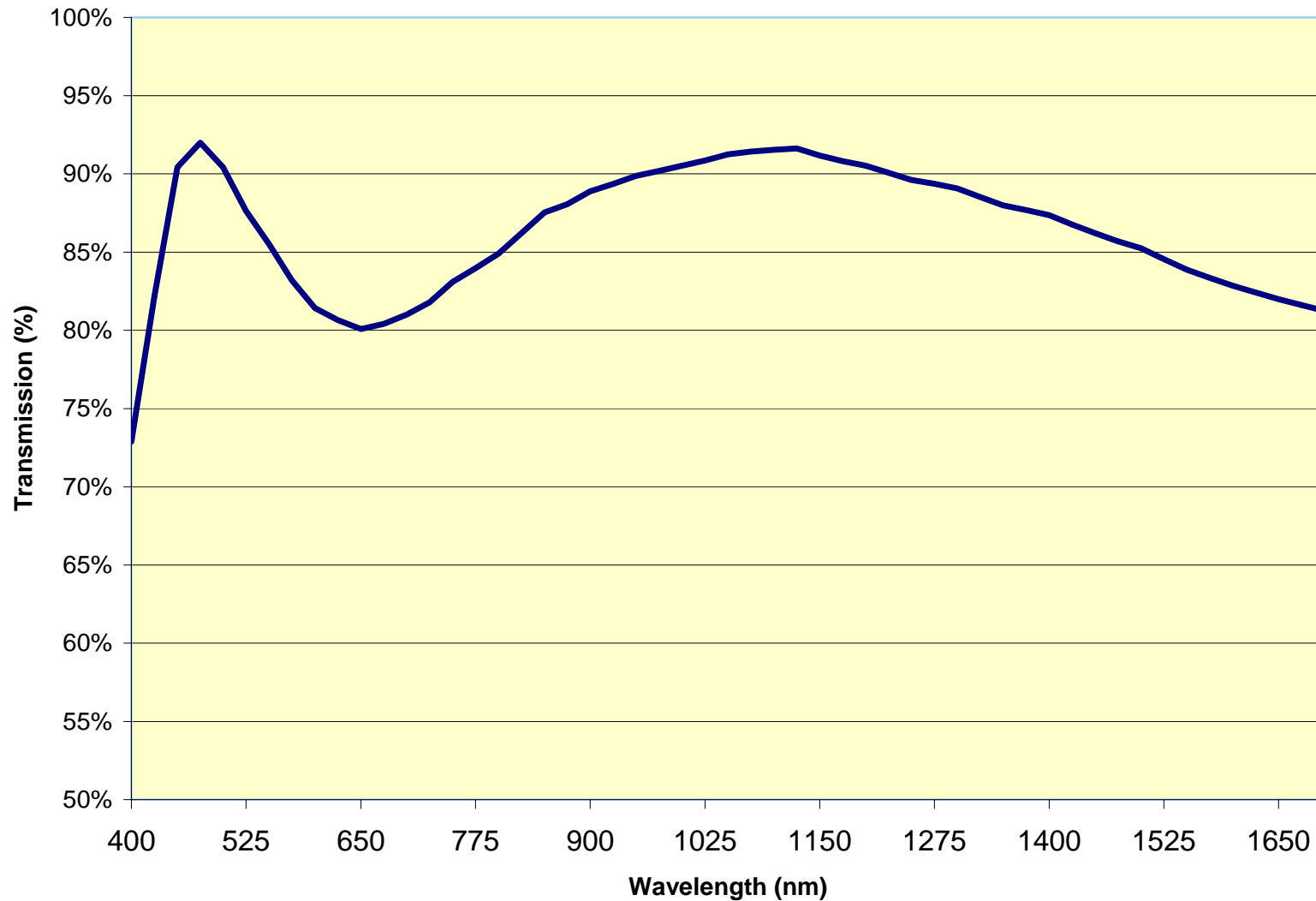
# Hyperspectral CoastalOpt® Lens

## -Spot Diagram



# Hyperspectral CoastalOpt® Lens

## -Transmission Curve



# Hyperspectral CoastalOpt® Lens

## *-Mechanical Dimensions*

